

Product datasheet for **AP06429PU-S**

FOXO1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the RPRSCTWPL of Human FoxO1.
Specificity:	This antibody detects endogenous levels of FOXO1/3/4-pan protein. (region surrounding Pro18/26)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 70 to 82 kDa
Gene Name:	forkhead box O1
Database Link:	Entrez Gene 2308 Human Q12778



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Background:

FOXO1 + FOX3 + FOX4 belong to the forkhead family of transcription factors.

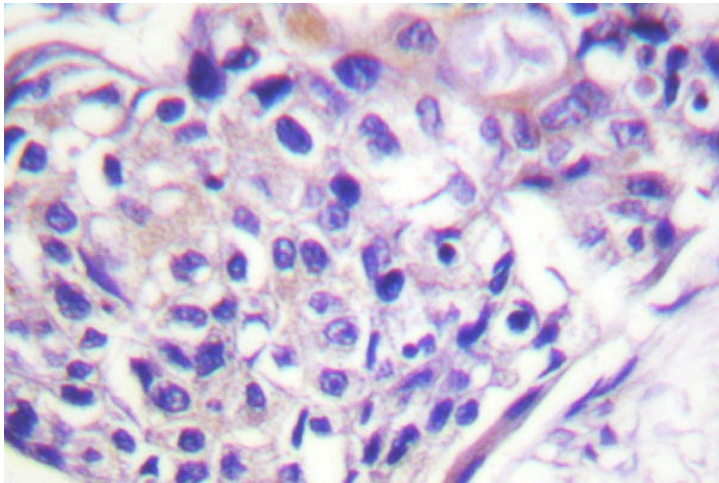
FOXO1 (FKHR or ForkHead in Rhabdomyosarcoma) is a 70 kDa protein. Recent studies have shown that this protein can act as either a coactivator or a corepressor of nuclear receptor activity. This action is mediated through the LXXLL motif found in the C terminus of the FOXO1A protein. The specific function of the gene has not yet been determined.

FOX3 probably functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of the FOXO3 gene with the MLL gene is associated with secondary acute leukemia. FOX4 is a forkhead transcription factor involved in the regulation of the insulin signaling pathway. It binds to insulin-response elements (IREs) and can activate transcription of IGFBP1.

FOXO4 down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. It is also involved in negative regulation of the cell cycle.

Synonyms:

FOXO1A, FOXO3A, FOXO4A

Product images:

Immunohistochemistry (IHC) analyzes of FOXO1/3/4-pan antibody in paraffin-embedded human breast carcinoma tissue.